

OPERATING PROCEDURE Use of Paralytic Agents

Effective Date:
_____February 22, 2002

Revised:

Approved By:

Approved By Operational Medical Director:

Omal Frake

BLS

- 1. Perform patient assessment as outlined in OP 6.2.00. Particular attention should be noted when assessing:
 - a. Level of consciousness
 - b. Airway status (clear, obstructed, etc.)
 - c. Circulatory status
 - d. Respiratory status
 - e. Level of respiratory distress
- 2. Clear the airway of any obstructions/foreign bodies Use suction devices as needed (ALS providers should visualize the airway and use Magill Forceps as needed.)
- 3. Obtain "Room Air" SpO2 and baseline lung sounds.
- 4. Administer Oxygen as indicated for hypoxia.
- 5. Use BLS airway adjuncts as needed to maintain airway.
- 6. Support respiratory status by ventilating with bag-valve-mask and 100% OXYGEN as needed.

ALS ONLY

- 7. Perform endotracheal intubation, via direct visualization, following OP 6.2.03 as well as the ACLS and EMT-P standards of care.
- 8. Patients who require intubation, and who present with one or more of the criteria listed below may be intubated using the rapid sequence method.
 - Intact gag reflex
 - Clenched down teeth
 - Conscious with severe respiratory distress
 - Head trauma
 - Otherwise unable to protect own airway

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MEDICAL CONTROL ONLY

- 9. Rapid Sequence Method
 - a. Assemble ET equipment and have suction device and proper sized OP airway on hand.
 - b. Ensure IV line (not saline lock) is secure and flowing
 - c. Place patient on SpO2 EKG, and blood pressure/heart rate monitors
 - d. Explain procedure to patient
 - e. Pre-oxygenate with 100% OXYGEN, using BVM if possible
 - f. Pre-medicate with LIDOCAINE 1.0 mg/kg in situations where intubation may increase ICP. (Reduce dosage to 0.5 mg/kg in patients presenting with CHF, liver disease, or >70 years old).
 - g. Pre-medicate pediatric patients with ATROPINE 0.02mg/kg. (min. dose 0.1mg)
 - h. Sedate patient. Slowly titrate VERSED 2.5 –10.0 mg until the initiation of slurred speech or inability to hold head up. Initial dosage shall be 2.5 to 5.0 mg over 20 seconds then evaluate the patient affect. If indicated, continue with 0.5 mg dosages given over 2 minutes until desired level of sedation is achieved. Up to 10 mg may be necessary. Pediatric dose is 0.02mg/kg.
 - i. Apply cricoid pressure (Sellick maneuver) prior to the administration of Succinylcholine and continue until cuff is inflated and tube placement is confirmed by auscultation
 - j. Administer SUCCINYLCHOLINE 1.5 mg/kg over 30 seconds. (Max. dose is 150 mg.). Allow time for fasciculation to cease. Pediatric dose is 2.0mg/kg up to age 10.
 - k. Perform endotracheal intubation, via direct visualization, following OP 6.2.03 as well as the ACLS and EMT-P standards of care.
 - *l. Inflate the cuff (where applicable) and secure the endotrachael tube.*
 - m. Monitor the patient closely. The duration of VERSED is approximately 15-60 minutes. The duration of SUCCINYLCHOLINE is 6-10 minutes.
- 10. Administer additional SUCCINYLCHOLINE or VERSED as directed to keep patient from compromising his or her airway.
- 11 The Difficult Airway

If initial attempts to place the ET tube has failed, oxygenate the patient and place the Laryngeal Mask Airway-Fastrach.

- a. Choose appropriate size, check for damage and leaks
- b. Fully deflate the LMA mask
- c. Lubricate mask face with water soluble gel
- d. Support the head and neck in a neutral position
- e. Place the tip of the LMA against the hard palate and insert along the curvature of the pharynx
- f. Inflate the mask with an appropriate amount of air for the size chosen
- g. Oxygenate the patient with high % O2
- h. Intubate through the LMA with the ET tube supplied with the unit
- i. Confirm tube placement and monitor with appropriate equipment

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12. Surgical Airway

A. Indications

- 1. Inability to ventilate despite having attempted BVM with a BLS airway, ET placement and the LMA Fastrack.
- 2. Inability to place ET in the setting of life-threatening upper airway hemorrhage.
- 3. Complete upper airway obstruction that cannot be corrected with Magill Forceps and direct visualization.

B. <u>Preparation</u>

- 1. Prepare suction and cricothyroidotomy kit.
- 2. Begin at sternal notch and locate cricoid cartilage.
- 3. Palpate cricothyroid membrane anteriorly between the cricoid cartilage and the thyroid cartilage.
- 4. Prepare the skin with betadine or alcohol swabs

C. Proceedure

- L. Stabilize the thyroid cartilage and make a vertical incision (1-2 cm) over the cricothyroid membrane.
- 2. Puncture membrane with inductor, angle towards the chest.
- 3. Use the attached syringe to confirm placement.
- 4. Remove the syringe and inductor as a unit and push the housing unit against the skin.
- 5. Insert the 2.5mm airway and remove trocar.
- 6. Increase airway size as appropriate for patient.
- 7. Oxygenate with BVM and high % O2.

13. Life threatening danger is defined as:

The patient is in inevitable danger of death if immediate intervention is not made. Patient should be suffering from one or more of the following conditions:

- a. Severe facial, neck and/or throat trauma preventing all conventional means of airway management.
- b. Foreign body airway obstruction that is not removable by any means.
- c. Severe laryngeal edema from a medical or traumatic condition that obstructs the airway, leaving it unmanageable by any other means.
- 14. Complete FSA 40, and attach a copy of the EMS report for review. Forward to EMS Captain.

City of Fairfax Fire Department Analysis of Pre-Hospital Endotracheal Intubation

Patient	Name	Age Sex \	Weight	Date/_	/
Control	Hospital	ED Physicia	an		
Medic	03 33 EMT-C-P	Incident #			
1	Patient Situation			Medica	
2	Route of Intubation			Oral _	Nasal
3	ET tube size				
4	Stylet Used?			yes	no
5	Type and size of blade used			Miller Macintosh	_
6	Pulse oximetry reading			pre-into	
7	Were lung sounds present and equal	after intubation?		yes	no
8	What was the post intubation end tid	al CO2 reading?			
9	Were there any pre or post intubation complications?			yes	no
10	How many total attempts were made	to intubate the pati	ient?		
11	Were paralytics needed to intubate the	he patient?		yes	no
12	How much Versed was administered	to achieve sedation	?	mg	
13	How much Succinylocholine was give	en to achieve paraly	zation?	mg	
14	If unable to intubate the patient after airway was used?	paralyzation, whic	ch alternati	ativeBVM onlyLMA (size)Nu-trake	
15	Did you feel paralytics were needed at (If "yes", what was the name of the c control physician denying the order)			yes	no
	Comm. Nurse	Control Ph	ysician		

Attach a copy of the medical report and forward to EMS Captain.

To be filled out by the Emergency Department Physician

16	Was the ET tube placed propo	yes no			
17	What was the patient's blood gases upon arrival at the ED?				
	PO2	Pco2	рН		
18	Were there any complications (if "yes", explain below)		yesno		
19	What was the pulse oximetry reading on arrival at the ED?			0/0	
20	Were there good bilateral lung sounds?			yesno	
21	Was a chest x-ray done on this patient?			yesno	
22	If "yes" to 21, was the tube in		yesno		
23	What was the final disposition	of this patient?		ICUORFloorMorgue	
El	D Physician's Name	Signat	ure		
C	omments				
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